

DOCKETED

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Filer:	Adrian Ownby
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2019 Building Energy Efficiency Standards Lead Commissioner Hearing For 45-Day Language

California Energy Commission
Hearing Room A
(Arthur Rosenfeld Room)

February 5, 2018

Peter Strait
Maziar Shirakh, P.E.

Subchapter 2
Sections 110.0 Through 112.0



SUBCHAPTER 2

ALL OCCUPANCIES—MANDATORY REQUIREMENTS FOR THE MANUFACTURE, CONSTRUCTION AND INSTALLATION OF SYSTEMS, EQUIPMENT AND BUILDING COMPONENTS

§ 110.2 – MANDATORY REQUIREMENTS FOR SPACE-CONDITIONING EQUIPMENT

- Updated the Efficiency columns in the tables. There was requirements for Before 1/1/2016 and After 1/1/2016 for the 2016 Standards which “Before 1/1/2016 is no longer pertinent.
- Updated few of the efficiency to lineup with ASHRAE 90.1 2016



§ 110.3 – MANDATORY REQUIREMENTS FOR SERVICE WATER-HEATING SYSTEMS AND EQUIPMENT

- Change public lavatories temperature control limit from 110°F to 120°F
 - Aligns with similar requirement in the California Plumbing Code
- Add exceptions for healthcare facilities covering controls of outlet temperatures and hot water distribution systems

§ 110.4 – MANDATORY REQUIREMENTS FOR POOL AND SPA SYSTEMS AND EQUIPMENT

- Clean up Language necessary for Clarity, no requirement change



§ 110.5 – NATURAL GAS CENTRAL FURNACES, COOKING EQUIPMENT, POOL AND SPA HEATERS, **AND** **FIREPLACES** PILOT LIGHTS PROHIBITED

- Added a requirement to prohibit continuously burning pilot-light for indoor and outdoor fireplaces



§ 110.6 – MANDATORY REQUIREMENTS FOR FENESTRATION PRODUCTS AND EXTERIOR DOORS

§110.6(a)2, 3, & 4 – Certification of Fenestration Products and Exterior Doors other than Field-fabricated

- Reduced the allowable square footage from 1,000 square feet to 200 square feet for site-built fenestration to use the default values of NA6:
 - Exception 1 to Section 110.6(a)2
 - Exception 1 to Section 110.6(a)3
 - Exception 1 to Section 110.6(a)4

§ 110.6(a)4 – Visible transmittance (VT)

- Changed the term Tubular Skylights to Daylighting Devices



§ 110.9 – MANDATORY REQUIRMENTS FOR LIGHTING CONTROLS DEVICES ~~AND SYTEMS, BALLASTS, AND LUMINAIRES~~

§110.9(b) Lighting Controls equipment

- Time-Switch Lighting Controls; Astronomical Time-Switch Controls; Dimmers; Occupant Sensing Controls; Part-night Outdoor Lighting Controls
- Consolidate functional requirements from both Title 20 and Title 24 in Section 110.9.



§ 110.9 – MANDATORY REQUIREMENTS FOR LIGHTING CONTROLS DEVICES ~~AND SYSTEMS, BALLASTS, AND LUMINAIRES~~

§110.9(c) Track Lighting Integral Current Limiters

- Manufacturer's certification not required.
- Installation certification not required
- Proper label of the equipment is required

§110.9(d) Track Lighting Supplementary Overcurrent Protection Panels

- Manufacturer's certification not required.
- Installation certification not required.
- Proper label of the equipment is required



§ 110.10 – MANDATORY REQUIREMENTS FOR SOLAR READY BUILDINGS

§110.10(a) Covered Occupancies

- Modified scope for single family residences and low-rise multifamily that qualify for an Exception in Section 150.1(c)14 that leaves the building with no PV system

§110.10(b)1A Minimum Solar Zone Area for Single Family Residence

- Delete Exception 1 for buildings with PV systems
- Modified Exception 3 to allow all climate zones in Wildland-Urban Interface Fire Area with whole house fans to qualify



§ 110.10 – MANDATORY REQUIREMENTS FOR SOLAR READY BUILDINGS (continued)

§110.10(b)1A Minimum Solar Zone Area for Single Family Residence (continued)

- Modified Exception 4 to expand allowable orientation to between 90 and 300 degrees of true north
- Modified Exception 6Bi to add another option for EVSE (EV Charger)

§110.10(b)1B Solar Zone

- Modified Exception 3 to expand allowable orientation to between 90 and 300 degrees of true north
- Modified Exception 4 to add option B for meeting Part 11 requirement for EV charging spaces



§ 110.12 – MANDATORY REQUIREMENTS FOR DEMAND MANAGEMENT

§110.12(a) Demand Responsive Controls

- OpenADR 2.0 required
- Other communication protocols allowed
- Thermostats must comply with JA5 also

§110.12(b, c, & d) *Consolidation*

- Nonres HVAC, Lighting, Message Centers
- No change in current requirements



How to submit written comments

- **We strongly encourage submitting written comments via e-file.**
Comments on the proposed 2019 Energy Code can be submitted to:
<https://efiling.energy.ca.gov/EComment/EComment.aspx?docketnumber=17-BSTD-02>.
- Comments on the proposed 2019 CALGreen can be submitted to:
<https://efiling.energy.ca.gov/EComment/EComment.aspx?docketnumber=17-BSTD-03>.
- Comments can also be submitted physically or by e-mail, here:

California Energy Commission
Dockets Office, MS-4

Re: Docket No. 17-BSTD-02 (for CALGreen, 03)

1516 Ninth Street

Sacramento, CA 95814-5512

Docket@energy.ca.gov

